About the Course

Syllabus is fully

focused on "Quantitative

Aptitude". Young aspirants for competitive exams and campus placement are all welcome to register in this course.



FATIMA COLLEGE (Autonomous [Re-Accredited with 'A++' Grade by NAAC (Cycle-IV)] Mary Land, Madural - 625018



DEPARTMENT OF MATHEMATICS - SF

VALUE ADDED COURSE

COMPUTATIONAL MATHEMATICS

CRASH COURSE 2021 - 2022



WEDNESDAY & FRIDAY





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FATIMA COLLEGE (AUTONOMOUS), MADURAI - 18

DEPARTMENT OF MATHEMATICS (SF)

CRASH COURSE ON COMPUTATIONAL MATHEMATICS

CODE: 19UGVAG1

COURSE DESCRIPTION

This course is designed to help the students to appear in competitive examinations.

COURSE OBJECTIVES:

At the end of the course, the students will be able to,

CO1: Solve problems on numbers, ages and trains

CO2: Illustrate profit and loss with examples

CO3: Explain partnership and related problems

CO4: Discuss problems on time and work

CO5: Solve problems on time and distances

COURSE OUTCOME:

- * Demaonstrate the use of mathematical reasoning by justifying through numerical skills.
 - * Examine various techniques in solving the problems

UNIT I: PROBLEMS ON NUMBERS, AGES AND TRAINS

[6 Hours]

Divisibility rules- LCM& HCF-unit digit-Arithmetic &Geometric Progression-Problems on ages-Problems on two trains moving on same direction-Problems on two trains moving on opposite direction.

UNIT II: PIPES AND CISTERNS

[6 Hours]

Problems on pipes &cisterns - shortcuts.

UNIT III: PROFIT AND LOSS

[6 Hours]

Profit and Loss: Cost Price – Selling Price – Profit or Gain – Loss – Gain percentage - Loss percentage.

UNIT IV: PARTNERSHIP

[6 Hours]

Partnership – Ratio of Division of Gains – Working and Sleeping Partners.

UNIT V: TIME & WORK AND TIME & DISTANCE

[6 Hours]

Time and Work: Important facts and formulae on time and work -Problems.

Time and Distance: Important facts and formulae on speed, time and distance – Problems.

Text Book:

 $\mbox{R. S. Aggarwal , Quantitative Aptitude for Competitive Examinations, S. Chand \& Company}$

Ltd, Revised Edition 2008.

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FATIMA COLLEGE (AUTONOMOUS)

Re-Accredited with 'A++' by NAAC (Cycle – IV) Mary Land, Madurai

DEPARTMENT OF MATHEMATICS

Value added Courses - Course Teacher Name list

S. No.	Course Title with Course Code	Course Teacher	No. of Hours Taken
1	Computational Mathematics / 19UGVAG1	R. Jenovi Rosary Deepa	30
2.	Computational Mathematics / 19UGVAG1	P. Dhanapriya	30

Course Teacher Signature

Signature of the HOD with Seal

Dr. E. HELENA
Head, Department of Mathematics (SP),
Fatima College (Autonomous)
Madurai - 18.

DEPARTMENT OF MATHEMATICS (SF)



FATIMA COLLEGE (Autonomous)

Re-Accredited with "A++" Grade by NAAC (Cycle-IV)
Mary Land, Madurai - 625018.

This is to certify that Ms. ...Aishvaryaa Shri · M - II B.Sc Maths has successfully completed the Value Added Crash Course On

COMPUTATIONAL MATHEMATICS

during the academic year 2021 - 2022 and has been awarded Distinction / First / Second class.

Dr.Sr.G.Celine Sahaya Mary Principal

Head of the Department

P. Nany Co-ordinator